

12 APR 2005

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
29 April 2004 (29.04.2004)

PCT

(10) International Publication Number
WO 2004/035082 A2

- (51) International Patent Classification⁷: **A61K 38/17**,
A01K 67/027, C12N 5/22, G01N 33/68, A61P 3/00
- (21) International Application Number:
PCT/EP2003/011352
- (22) International Filing Date: 14 October 2003 (14.10.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
02022880.5 14 October 2002 (14.10.2002) EP
02023560.2 22 October 2002 (22.10.2002) EP
02024747.4 6 November 2002 (06.11.2002) EP
- (71) Applicant (for all designated States except US): **DEVELO-
GEN AKTIENGESELLSCHAFT FÜR ENTWICK-
LUNGSBIOLOGISCHE FORSCHUNG [DE/DE]**;
Rudolf-Wissell-Strasse 28, 37079 Göttingen (DE).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **EULENBERG**,
Karsten [DE/DE]; Vom-Stein-Str. 29, 37120 Bovenden
(DE). **MEISE**, Martin [DE/DE]; An der Tränke 10,
37079 Göttingen (DE). **MOLITOR**, Andreas [DE/DE];
Max-Both-Ring 2F, 37077 Göttingen (DE). **STEUER-
NAGEL**, Arnd [DE/DE]; Am Kirschberge 4, 37085
Göttingen (DE).
- (74) Agents: **WEICKMANN, Franz, Albert et al.**; **WE-
ICKMANN & WEICKMANN**, Postfach 860 820, 81635
München (DE).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE,
GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR,
KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK,
MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT,
RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR,
TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**
— without international search report and to be republished
upon receipt of that report
- For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: PROTEINS INVOLVED IN THE REGULATION OF ENERGY HOMEOSTASIS

(57) Abstract: The present invention discloses novel uses for energy homeostasis regulating proteins and polynucleotides encoding these in the diagnosis, study, prevention, and treatment of metabolic diseases and disorders.

WO 2004/035082 A2